

CROMPTON CORP  
Form 5  
February 11, 2005

# FORM 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

OMB APPROVAL

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Form 3 Holdings Reported Form 4 Transactions Reported

## ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person \*  
WOOLF PATRICIA K

(Last) (First) (Middle)

506 QUAKER ROAD

(Street)

PRINCETON, NJ 08540

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
CROMPTON CORP [CK]

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
12/31/2004

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

6. Individual or Joint/Group Reporting

(check applicable line)

Form Filed by One Reporting Person  
 Form Filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | (A) or (D) | Price | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|------------|-------|--|--|---|
| Common Stock                    | Â                                    | Â  | Â                              | Â   | Â          | Â     | 11,163   | D  | Â   |
| Common Stock                    | Â                                    | Â  | Â                              | Â   | Â          | Â     | 1,504.1511   | I  | DRIP  |
| Common Stock                    | Â                                    | Â  | Â                              | Â   | Â          | Â     | 20,950   | I  | DIR/RABBI TRUST                                       |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) |                  | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |                            |
|--|--|--------------------------------------|--|--------------------------------|---|--|------------------|---|-------------------------------|----------------------------|
|  |  |                                      |  |                                | (A)   | (D)  | Date Exercisable | Expiration Date   | Title                         | Amount or Number of Shares |
| NQ Stock Option (Right to Buy)             | \$ 7.25  | Â                                    | Â  | Â                              | Â   | Â  | 10/22/2003       | 11/21/2012  | Common Stock                  | 9,655                      |
| NQ Stock Option (Right to Buy)             | \$ 7.92  | Â                                    | Â  | Â                              | Â   | Â  | 10/23/2002       | 11/22/2011  | Common Stock                  | 8,838                      |
| NQ Stock Option (Right to Buy)             | \$ 8.1562  | Â                                    | Â  | Â                              | Â   | Â  | 10/31/2001       | 11/30/2010  | Common Stock                  | 7,500                      |
| NQ Stock Option (Right to Buy)             | \$ 8.343   | Â                                    | Â  | Â                              | Â   | Â  | 10/19/2000       | 10/19/2009  | Common Stock                  | 7,500                      |
| NQ Stock Option (Right to Buy)             | \$ 8.343   | Â                                    | Â  | Â                              | Â   | Â  | 10/19/2000       | 11/19/2009  | Common Stock                  | 25,000                     |
| NQ Stock Option (Right to Buy)             | \$ 13  | Â                                    | Â  | Â                              | Â   | Â  | 08/04/1999       | 11/18/2005  | Common Stock                  | 1,538                      |
| NQ Stock                                   | \$ 14.3438   | Â                                    | Â  | Â                              | Â   | Â  | 08/05/1999       | 11/14/2008  | Common Stock                  | 5,752                      |

|   |            |   |   |   |   |   |            |            |                 |        |  |  |
|---|------------|---|---|---|---|---|------------|------------|-----------------|--------|--|--|
| Option<br>(Right to Buy)                |            |   |   |   |   |   |            |            |                 |        |  |  |
| NQ<br>Stock<br>Option<br>(Right to Buy) | \$ 14.5    | ^ | ^ | ^ | ^ | ^ | 08/04/1999 | 09/21/2006 | Common<br>Stock | 10,000 |  |  |
| NQ<br>Stock<br>Option<br>(Right to Buy) |            |   |   |   |   |   |            |            |                 |        |  |  |
| NQ<br>Stock<br>Option<br>(Right to Buy) | \$ 16.0625 | ^ | ^ | ^ | ^ | ^ | 08/04/1999 | 02/24/2005 | Common<br>Stock | 1,245  |  |  |
| NQ<br>Stock<br>Option<br>(Right to Buy) |            |   |   |   |   |   |            |            |                 |        |  |  |
| NQ<br>Stock<br>Option<br>(Right to Buy) | \$ 16.875  | ^ | ^ | ^ | ^ | ^ | 08/04/1999 | 11/16/2006 | Common<br>Stock | 2,963  |  |  |
| NQ<br>Stock<br>Option<br>(Right to Buy) |            |   |   |   |   |   |            |            |                 |        |  |  |
| NQ<br>Stock<br>Option<br>(Right to Buy) | \$ 26.4063 | ^ | ^ | ^ | ^ | ^ | 08/04/1999 | 11/07/2007 | Common<br>Stock | 1,893  |  |  |

## Reporting Owners

| Reporting Owner Name / Address                             | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| WOOLF PATRICIA K<br>506 QUAKER ROAD<br>PRINCETON, NJ 08540 | ^ X           | ^         | ^       | ^     |

## Signatures

Patricia K.  
Woolf

02/11/2005

\*\*Signature of  
Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

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